INTERNATIONAL SEARCH REPORT

Internation Application No PCT/US2004/040092

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C10G67/08 C10G C10G67/14 C10G21/08 C10G47/00 C10G17/06 According to International Patent Classification (IPC) or to both national classification and IPC **B. FIELDS SEARCHED** Minimum documentation searched (classification system followed by classification symbols) IPC 7 C10G Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched Electronic data base consulted during the International search (name of data base and, where practical, search terms used) EPO-Internal, WPI Data, PAJ C. DOCUMENTS CONSIDERED TO BE RELEVANT Category ° Citation of document, with indication, where appropriate, of the relevant passages Relevant to claim No. X US 2 800 427 A (JR. WILLIAM A. JUNK, ET 1-3,5,AL) 23 July 1957 (1957-07-23) 8-18. 20-22 column 1, line 46 - line 49 column 3, line 7 - line 15 column 6, line 17 column 9, line 69 - line 71; claims 1,6 X US 2 902 430 A (JR. CHARLES NEWTON 1-4,6,KIMBERLIN, ET AL) 8-18. 1 September 1959 (1959-09-01) 20-22 column 1, line 24 - line 56 column 4, line 59 - line 73 column 7, line 1 - line 32; claim 1; figure 1 -/--Further documents are listed in the continuation of box C. Patent family members are listed in annex. Special categories of cited documents: 'T' later document published after the international filing date or priority date and not in conflict with the application but "A" document defining the general state of the art which is not considered to be of particular relevance cited to understand the principle or theory underlying the invention "E" earlier document but published on or after the International "X" document of particular relevance; the claimed invention filing date cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "Y" clocument of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such docu-ments, such combination being obvious to a person skilled "O" document referring to an oral disclosure, use, exhibition or in the art. document published prior to the International filing date but later than the priority date claimed "&" document member of the same patent family Date of the actual completion of the international search Date of mailing of the international search report 21 February 2005 01/03/2005 Name and mailing address of the ISA Authorized officer European Patent Office, P.B. 5818 Patentlaan 2 Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Deurinck, P

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		PC1/US2004/040092		
C.(Continua	ation) DOCUMENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the relevant passages		Relevant to claim No.	
X	US 5 730 858 A (OLIVIER ET AL) 24 March 1998 (1998-03-24) column 2, line 15 - line 23 column 8, line 30 - line 36; claim 1; example 1; table 1		1-5,7-22	
X	US 3 749 666 A (LOCKWOOD W,US ET AL) 31 July 1973 ("973-07-31) column 2, line 20 - line 54; claim 1;		1,2, 8-13, 17-22	
	example 1; tables 1-3			
X	US 3 681 233 A (IVOR W. MILLS ET AL) 1 August 1972 (1972-08-01)		1-4, 8-18, 20-22	
	column 3, line 62 - line 68 column 5, line 20 - line 30 column 6, line 43 - line 55; claims 1,4; table 1			
Α	US 3 992 156 A (CLONTS ET AL) 16 November 1976 (1976-11-16) cited in the application the whole document		1–22	
				
,	,			

INTERNATIONAL SEARCH REPORT

Internation on patent family members

Application No PCT/US2004/040092

			_		002001, 010052
Patent document cited in search rep		Publication date		Patent family member(s)	Publication date
US 2800427	А	23-07-1957	NONE		
US 2902430	A	01-09-1959	NONE		
US 5730858	A	24-03-1998	AT	218609 T	15-06-2002
			CA	2200525 A1	01-10-1997
			CN	1162622 A ,	
			DE DE	69712967 D1 69712967 T2	11-07-2002 02-01-2003
			DK	799882 T3	16-09-2002
			EP	0799882 A1	08-10-1997
			ES	2177853 T3	16-12-2002
			GB	2311789 A ,	B 08-10-1997
			JP	10036861 A	10-02-1998
			NO	971115 A	02-10-1997
			SG	52934 A1 	28-09-1998
US 3749666	A	31-07-1973	NONE		
US 3681233	Α	01-08-1972	US	3804743 A	16-04-1974
			US	3759817 A	18-09-1973
			US	3462358 A	19-08-1969
			US Be	3502567 A 733479 A	24-03-1970 24-11-1969
			CA	925808 A1	08-05-1973
			CH	517167 A	31-12-1971
			DE	1926173 A1	05-02-1970
			DE	2036629 A1	04-03-1971
			FR	2014136 A5	17-04-1970
			NL NI	6907881 A	25-11-1969
			NL BE	7013504 A 754957 A4	14-03-1972 18-02-1971
			CH	562871 A5	13-06-1975
			FR	2058346 A6	28-05-1971
			GB	1326946 A	15-08-1973
			US	3839189 A	01-10-1974
			JP	49019684 B	20-05-1974
	~		US 	3928168 A	23-12-1975
US 3992156	Α	16-11-1976	BE	843886 A1	03-11-1976
			CA DE	1032155 A1 2618390 A1	30-05-1978 27-01-1977
			GB	1538323 A	27-01-1977 17-01-1979
			JP	982677 C	11-01-1980
			ĴΡ	52014920 A	04-02-1977
			0.	OCOL-IDEO II	